

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/US 03/16207

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07C235/20 C07C235/22 C07C235/24 C07D295/18 C07C235/26
 C07C235/34 C07C233/18 C07C69/734 C07C323/41 C07D333/20
 C07D211/32 C07D217/06 C07D317/58 C07D277/82 C07D213/40

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07C C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

BEILSTEIN Data, EPO-Internal, CHEM ABS Data, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE CROSSFIRE BEILSTEIN 'Online! Beilstein Institut zur Förderung der Chemischen Wissenschaften, Frankfurt am Main, DE; Database accession no. BRN 5961279 XP002258323 abstract & LARGE, M. S., SMITH, L. H. : J. MED. CHEM., vol. 26, no. 3, 1983, pages 352-57, --- -/--</p>	1,4,15, 16

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention.

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

17 October 2003

Date of mailing of the international search report

03/11/2003

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

International Application No.

PCT/US 03/16207

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D285/12 C07D277/46 A61K31/16 A61K31/425 A61K31/495
A61K31/38 A61K31/435 A61K31/14 A61P3/10

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X	<p>DATABASE CROSSFIRE BEILSTEIN 'Online! Beilstein Institut zur Förderung der Chemischen Wissenschaften, Frankfurt am Main, DE; Database accession no. BRN 3406655 XP002258324 abstract & NAMETKIN ET AL. : ZH. OBSHCH. KHIM., 21, 1951, pages 2146-47,</p> <p style="text-align: center;">--- -/--</p>	1,4-6, 15,16

☒ Further documents are listed in the continuation of box C.

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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

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- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE CROSSFIRE BEILSTEIN 'Online! Beilstein Institut zur Förderung der Chemischen Wissenschaften, Frankfurt am Main, DE; Database accession no. Reaction ID 8549770 XP002258325 abstract & PENNING, TH. D. ET AL.: J. MED. CHEM., vol. 43, no. 4, 2000, pages 721-35,	1, 10, 15, 16
X	DATABASE CROSSFIRE BEILSTEIN 'Online! Beilstein Institut zur Förderung der Chemischen Wissenschaften, Frankfurt am Main, DE; Database accession no. BRN 5989230 XP002258326 abstract & BARRIE, S. E. ET AL.: J. MED. CHEM., vol. 27, no. 8, 1984, pages 1044-47,	1, 5, 15, 16
X	DATABASE CROSSFIRE BEILSTEIN 'Online! Beilstein Institut zur Förderung der Chemischen Wissenschaften, Frankfurt am Main, DE; Database accession no. BRN 8227222, 8219632 XP002258327 abstract & ADAMCZYK, M.; GROTE, J.: BIOORG. MED. CHEM. LETT., vol. 9, no. 2, 1999, pages 245-48,	1, 4-6, 15, 16
A	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; KADOTA, HIDETOSHI ET AL.: "Preparation of catechol propionic acid derivatives as peroxisome proliferator-activated receptor (PPAR) .alpha. and .gamma. agonists" retrieved from STN Database accession no. 135:257231 XP002258328 abstract and RN 362012-80-4 & JP 2001 261612 A (MITSUI CHEMICALS INC.) 26 September 2001 (2001-09-26)	1-39
A	WO 00 63196 A (NOVO NORDISK AS) 26 October 2000 (2000-10-26) page 1, line 5 - line 12; claims; examples -/-	1-39

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WILLSON T M ET AL: "The PPARs: From orphan receptors to drug discovery" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 43, no. 4, 24 February 2000 (2000-02-24), pages 527-550, XP002956330 ISSN: 0022-2623 the whole document	1-39
E	WO 03 051821 A (ASTRAZENECA UK LTD ;OLSSON ANNA CHRISTINA (SE); ASTRAZENECA AB (SE) 26 June 2003 (2003-06-26) page 2, line 10 - line 11; claims; examples page 7, line 9 -page 8, line 13	1-3,5,6, 15,16, 19,21, 30-38
E	WO 03 051822 A (ASTRAZENECA UK LTD ;OLSSON ANNA CHRISTINA (SE); ASTRAZENECA AB (SE) 26 June 2003 (2003-06-26) page 3; line 26 - line 28; claims; examples page 7, line 17 -page 8, line 24	1-3,5,6, 15,16, 19,21, 30-38

INTERNATIONAL SEARCH REPORT

International application No. PCT/US 03/16207

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 31-34 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☒ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Present claims 1-25 relate to an extremely large number of possible compounds. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, a complete search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the compounds of formula I with E equal to C(-O)-COO. Cited documents, which are related to compounds outside the completely searched scope are merely an arbitrary selection of documents retrieved during the search and relevant to the issue of novelty.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

mation on patent family members

International Application No.

PCT/US 03/16207

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
JP 2001261612	A	26-09-2001	NONE		
WO 0063196	A	26-10-2000	AU	3958200 A	02-11-2000
			WO	0063196 A1	26-10-2000
			US	6274608 B1	14-08-2001
WO 03051821	A	26-06-2003	WO	03051821 A1	26-06-2003
			WO	03051822 A1	26-06-2003
WO 03051822	A	26-06-2003	WO	03051821 A1	26-06-2003
			WO	03051822 A1	26-06-2003